

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

CONTRACTOR	CONTRACT NO. / TASK NO.	AMENDMENT	JOB ORDER NUMBER	APPROPRIATE
QSS Group, Inc.	NAS5- 99124	TASK NO. 243	480-615-32-22-89	2000

TASK TITLE: (NTE 80 characters; include Project name)

POES Spacecraft/Instrument Systems Engineering

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)

Mark Brumfield	<i>Karen Halterman</i>	DATE 4/20/00	ORG CODE 480	MAIL CODE 480	PHONE 301-286-8992
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BRANCH HEAD

Mark Brumfield	<i>Karen Halterman</i>	DATE 4/20/00	CODE 480	PHONE 301-286-8992
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CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

<i>for</i> Robert S. Lebar	<i>Scharah A. Clark</i>	DATE 4/21/00	CODE 560	PHONE 301-286-6588
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FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?

(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

[X] NO [ ] YES

CONTRACTING OFFICER'S QUALITY REP.

DESIGNATED FAM:

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date:

Contractor will develop specification or statement of work under this task for a future procurement.

[X] NO [ ] YES

Flight hardware will be shipped to GSFC for testing prior to final delivery.

[ ] NO [ ] YES [X] N/A

Government Furnished Property/Facilities:

[ ] NO [X] YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance:

[ ] NO [X] YES If yes: [ ] TOTAL [X] PARTIAL

If partial, indicate onsite work in SOW by asterisk (\*)

Surveillance Plan Attached:

[X] NO [ ] YES

Highlighted Contract Clauses:

(to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be 5/1/00.

**INCENTIVE FEE STRUCTURE**

(check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<u>X</u> No. 1	No. 2	No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 1,070,013.

The target fee of this task order is \$ 69,551.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 1,139,564.

The maximum fee is \$ 101,651.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

*Elizabeth J. Austin*

SIGNATURE OF CONTRACTING OFFICER

6/2/00

DATE

**ELIZABETH J. AUSTIN**  
**CONTRACTING OFFICER**

TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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Applicable paragraphs from contract Statement of Work: Function 2B

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

*(This is a follow-on to Tasks 33, 36 and 37 under this contract; uninterrupted transition is required. The Task 36 follow-on work described below and indicated by an asterisk (\*) will begin 10/1/00.)*

The contractor provide experienced engineering support to perform engineering tasks for the NOAA-15, L, M, N, and N' satellites to ensure that all components and systems meet their intended design and performance specifications and are sufficient to ensure mission success. The contractor shall provide the following services for satellite, instruments and AGE development, interface specification and evaluation, and launch vehicle accomodations:

Perform engineering analyses to evaluate the system performance, reliability and manufacturability of all the POES instruments and their interfaces with the POES and MetOp spacecraft's and document in written reports.

Perform surveillance of schedule and cost milestones at the instrument developer's plant and produce regular reports on these items, including the critical path items.

Perform an independent assessment of the progress and status accounting of the instrument developer's production of hardware and all supporting documentation and document in written reports. This task includes providing assessments that appropriate engineering, quality, and manufacturing resources are allocated for the POES mission, schedule, and contractual requirements.

Monitor integration, test, and data validation of instrument to the bus. Oversee integration of the instruments to the bus, specify expectable test parameters, verify test plans, review test data and recommend corrective action where necessary.

Provide Systems engineering to facilitate solutions of technical issues impacting instrument performance.  
Evaluate interface issues between the instruments and the MetOp Spacecraft

Provide engineering expertise and perform the duties of the lead POES Systems Engineer to review and monitor the the prime contractor's efforts to assure that the satellite meets the POES Project and mission requirements.

Maintain cognizance of the prime contractor's activities for the design, design modifications, analysis, procurement, development, fabrication, test, troubleshooting and integration of the spacecraft and it's subsystem components.

Identify technical and schedule problem areas to the POES Systems Manager with supporting rationale and recommended solutions or analysis.

Identify and perform independent studies and analysis.

Participate in relevant technical meetings and reviews.

Provide input to the POES Systems Manager on prime contractor data deliverables for contractual and technical content.

Participate in spacecraft I&T testing, pre-mission operations activities, launch, on-orbit spacecraft check out, and orbital anomaly meetings and investigations.

Provide services for closure of recommendation for action items from Code 300 reviews.

Participate in requirements flowdown activities.

\*Maintain an automated system to trace all requirements from the spacecraft specification to the Class 1 subsystem specifications.

\*Perform updates to the requirements flowdown products as required for the NOAA-L and -M and for the NOAA-NN' satellites.

This SOW covers both on-site and off-site personnel.

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**PERFORMANCE SPECIFICATIONS:**

Monthly technical progress reports to include: summary of progress during the month being reported, planned work for the next month, problems/issues and resolution.

**APPLICABLE DOCUMENTS:**

Performance Specification for the NOAA-K, L, M, N&N'-prime Satellites: GSFC-S-480-25.1

Performance Assurance Requirements for the NOAA-K, L, M, N, N-prime Satellites: GSFC-S-480-26.1

Performance Specifications for the NOAA-K, L, M, N, N-prime spacecraft subsystems

**TASK END DATE:**

4/30/01

**MILESTONES/DELIVERABLES AND DATES:**

Status Reports: 2 weeks after month end

Summary Reports: Four weeks after each major project prime contractor (LMMS) review (SCR,PDR,CDR,PER, and PSR).

Trip report: 2 weeks after completion of the trip

SEPET Summary Evaluation: Four weeks after completion of each SEPET.

Technical evaluation and recommendation: Draft copy for review 1 month following request by ATR; final copy 2 weeks following receipt of ATR's comments on the draft

\*Complete the NOAA-NN' requirements flowdown update for all subsystems--3/30/01.

**PERFORMANCE STANDARDS:**

Schedule: On-time delivery of the above

Technical: ATR's acceptance of the above

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Mark Brumfield, building 6, room S214